Title (en)
HUMAN FACE FEATURE POINT TRACKING METHOD, DEVICE, STORAGE MEDIUM AND APPARATUS

Title (de)
VERFAHREN, VORRICHTUNG, SPEICHERMEDIUM UND EINRICHTUNG ZUR VERFOLGUNG VON MERKMALSPUNKTEN EINES MENSCHLICHEN GESICHTS

Title (fr)
PROCÉDÉ, DISPOSITIF, SUPPORT DE STOCKAGE ET APPAREIL DE SUIVI DE POINTS CARACTÉRISTIQUES DE VISAGE HUMAIN

Publication
EP 3644219 A4 20210317 (EN)

Application
EP 18819678 A 20180523

Priority
- CN 201710473506 A 20170621
- CN 2018088070 W 20180523

Abstract (en)
[origin: US2019370530A1] In a method for facial feature point tracking, facial feature points of a face in a previous image of a to-be-tracked image are acquired in an image sequence. Facial feature point errors between the to-be-tracked image and the previous image are determined based on a preset error model and pixels in the to-be-tracked image. The facial feature point errors indicate differences between first coordinates of facial feature points in the to-be-tracked image, and second coordinates of facial feature points at corresponding positions in the previous image. The preset error model is trained based on facial feature points in a plurality of pairs of adjacent reference images. Further, the facial feature points of the face in the to-be-tracked image are determined based on the facial feature points of the face in the previous image and the facial feature point errors between the to-be-tracked image and the previous image.

IPC 8 full level
G06T 7/246 (2017.01); **G06V 10/764** (2022.01)

CPC (source: CN EP US)
G06F 18/24323 (2023.01 - EP); **G06T 7/246** (2017.01 - EP US); **G06T 7/248** (2017.01 - US); **G06V 10/764** (2022.01 - EP US); **G06V 40/167** (2022.01 - CN EP US); **G06V 40/169** (2022.01 - EP US); G06T 2207/20081 (2013.01 - EP); G06T 2207/30201 (2013.01 - EP US)

Citation (search report)
- [X] PRABHU UTSAV ET AL: "Automatic Facial Landmark Tracking in Video Sequences Using Kalman Filter Assisted Active Shape Models", LECTURE NOTES IN COMPUTER SCIENCE, vol. 6653, 23 November 2012 (2012-11-23), pages 86 - 99, XP047531594, ISBN: 978-3-642-35748-0, DOI: 10.1007/978-3-642-35749-7_7
- [A] NIAN CAI ET AL: "Detecting facial landmarks in the video based on a hybrid framework", 21 September 2016 (2016-09-21), XP055655427, Retrieved from the Internet <URL:https://pdfs.semanticscholar.org/4b02/387c2db968a70b69d98da3c443f139099e91.pdf> [retrieved on 20200108]
- [A] COOTES TIM F ET AL: "Robust and Accurate Shape Model Fitting Using Random Forest Regression Voting", LECTURE NOTES IN COMPUTER SCIENCE, vol. 7578, 7 October 2012 (2012-10-07), pages 278 - 291, XP047531326, DOI: 10.1007/978-3-642-33786-4_21
- See also references of WO 2018233438A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
US 10943091 B2 20210309; **US 2019370530 A1 20191205**; CN 108304758 A 20180720; CN 108304758 B 20200825; EP 3644219 A1 20200429; EP 3644219 A4 20210317; MA 49468 A 20200429; WO 2018233438 A1 20181227

DOCDB simple family (application)
US 201916542005 A 20190815; CN 201710473506 A 20170621; CN 2018088070 W 20180523; EP 18819678 A 20180523; MA 49468 A 20180523